

AUTOMATED INTERFACE GENERATION FOR COMPUTER PROGRAMS IN
DIFFERENT ENVIRONMENTS

ABSTRACT OF THE DISCLOSURE

5

Automated interface generation for computer programs
operating in different environments is provided. An
automated interface generation system, method, computer
program product and article of manufacture is provided
10 comprising an import utility and a runtime environment.
The import utility imports a COBOL IMS transaction source
file, parses the specified input and output message
records, and generates an application programming
interface. The application programming interface operates
15 with the runtime environment to take the data values from
the language of a different environment and translate
them to a formatted IMS input message. This format is
derived from the definition of the input message record
in the COBOL IMS transaction source file. After the IMS
20 transaction has executed, the resulting IMS output
message is translated back to the data values of the
language of the different environment, said values
including the results of the transaction. The translation
step handles data conversion between different code
25 pages, machine architectures, and program semantics, and
handles the dynamic nature of IMS messages.